

3 and the initialized entry for the task are consecutive; and
 4 wherein the byte-offset to the resolved entry can be computed from the
 5 byte-offset to the initialized entry for a same task by adding a size, expressed in
 6 number of bytes, of the pointer to the task class mirror object.

1 42. The apparatus of claim 40,
 2 wherein the task class mirror table is arranged so that the resolved entry
 3 and the initialized entry for the task are separated by half of a total number of
 4 entries in the task class mirror table; and
 5 wherein the byte-offset to the resolved entry can be computed from the
 6 byte-offset to the initialized entry for a same task by adding a size, expressed in
 7 number of bytes, of half the total number of entries in the task class mirror table.

1 43. The apparatus of claim 40, wherein the resolved entry of the task
 2 class mirror table associated with the class is used in cases where testing for class
 3 initialization is unneeded but access to a task-private part of the class is required
 4 when the class has been loaded but not fully initialized.

1 44. The apparatus of claim 38,
 2 wherein task class mirror tables associated with classes that have an empty
 3 initialization function have a single entry per task; and
 4 wherein the single entry per task is the initialized entry for that task.

1 45. The apparatus of claim 44,
 2 wherein the creating mechanism is further configured to create the task
 3 class mirror object that holds the task private representation of the class;
 4 wherein the setting mechanism is further configured to set the task class

1 46. The apparatus of claim 45,
2 wherein the task class mirror table is arranged so that the resolved entry
3 and the initialized entry for the task are separated by half of a total number of
4 entries in the task class mirror table; and
5 wherein the byte-offset to the resolved entry can be computed from the
6 byte-offset to the initialized entry for a same task by adding a size, expressed in
7 number of bytes, of half the total number of entries in the task class mirror table.

1 47. The apparatus of claim 46, wherein the resolved entry of task class
2 mirror tables associated with classes that have the non-empty initialization
3 function is used when accessing a task-private part of the class without testing for
4 class initialization is necessary and the task has loaded but not fully initialized the
5 class.

1 48. The apparatus of claim 44,
2 wherein the creating mechanism is further configured to create the task
3 class mirror object that holds the task private representation of the class;
4 wherein the setting mechanism is further configured to set the task class
5 mirror object's state to fully initialized; and
6 further comprising an assigning mechanism that is configured to assign the
7 task class mirror object's pointer to the initialized entry of the task class mirror
8 table associated with the class for that task.